

***Amendments to the Claims***

The listing of claims will replace all prior versions, and listings of claims in the application.

Claims 1-11 (Cancelled).

12. (Currently Amended) A transceiver, comprising:

a plurality of ports;

a bus connecting said plurality of ports on a common substrate;

a plurality of programmable pads in communications with said plurality of ports, wherein at least one of said programmable pads is configured to operate with a plurality of electrical specifications such that an operating voltage of said at least one programmable pad can be changed according to a specified electrical specification; and

a register for sending instructions to configure at least one of said programmable pads to comply with a specified data protocol and the specified electrical specification; wherein at least one of said programmable pads is configured to either send or receive data after having been configured to comply with said data protocol and electrical specification.

13. (Original) The transceiver of claim 12, further comprising:

a timing controller for modulating delay between input and output of at least one of said programmable pads.

14. (Original) The transceiver of claim 12, further comprising:  
a timing register for sending instructions to adjust the delay between input and  
output of at least one of said programmable pads.

15. (Original) The transceiver of claim 12, further comprising:  
an input controller for configuring at least one of said programmable pads to  
receive at least one of a data signal and a control signal.

16. (Original) The transceiver of claim 12, further comprising:  
an output controller for configuring at least one of said programmable pads to  
send at least one of a data signal and a control signal.

17. (Original) The transceiver of claim 12, further comprising:  
a testing register for sending a test message to measure leakage current from at  
least one of said programmable pads.

18. (Currently Amended) A method for programming a transceiver,  
comprising:  
accessing protocol instructions that specify a data protocol;  
accessing an electrical specification that includes instructions to change an  
operating voltage of a programmable pad disposed on the ~~traseeiver~~ transceiver;  
sending a first control signal that carries said protocol and electrical specification  
instructions;

executing said protocol and electrical specification instructions to configure said programmable pad; and

sending a second control signal to instruct said programmable pad to function as an output or an input after executing said protocol and electrical specification instructions; and

sending or receiving data at said programmable pad in accordance with said data protocol and said electrical specification.

19. (Original) The method according to claim 18, further comprising:  
sending an input control message to configure said programmable pad to receive at least one of data and a control message.

20. (Original) The method according to claim 18, further comprising:  
sending an output control message to configure said programmable pad to send at least one of data and a control message.

21. (Original) The method according to claim 18, further comprising:  
sending a test message to measure leakage current at said programmable pad.

22. (Original) The method according to claim 18, further comprising:  
sending a delay control message to adjust the delay between input and output at said programmable pad.

23. (Original) The method according to claim 22, further comprising:  
delaying data at said programmable pad for a fixed time interval;  
sending said data to a destination external to said programmable pad upon  
expiration of said fixed time interval, wherein said delay control message determines  
said fixed time interval.

24. (Original) The method according to claim 22, further comprising:  
delaying data in a buffer at said programmable pad for a fixed time interval;  
sending said data to a second buffer or a destination external to said  
programmable pad upon expiration of said fixed time interval, wherein said delay control  
message determines whether said data is sent to said second buffer or said destination.

25. (Currently Amended) A transceiver, comprising:  
protocol means for accessing protocol instructions that specify a data protocol  
and an electrical specification that includes instructions to change the operating voltage  
of a programmable pad disposed on the ~~traseeiver~~ transceiver; and  
control logic for executing said protocol instructions to configure said  
programmable pad, such that said programmable pad is configured to either send or  
receive data after having been configured to comply in accordance with said data  
protocol and said electrical specification.

26. (Original) The transceiver of claim 25, further comprising:  
input control means for instructing said programmable pad to receive at least one  
of data and a control message.

27. (Original) The transceiver of claim 25, further comprising:  
output control means for instructing said programmable pad to send at least one  
of data and a control message.

28. (Original) The transceiver of claim 25, further comprising:  
testing means for measuring leakage current at said programmable pad.

29. (Original) The transceiver of claim 25, further comprising:  
timing means for adjusting the delay between input and output at said  
programmable pad.

30. (Original) The transceiver of claim 29, further comprising:  
means for delaying data at said programmable pad for a fixed time interval; and  
means for sending said data to a destination external to said programmable pad  
upon expiration of said fixed time interval, wherein said timing means determines said  
fixed time interval.